Automation using Python

Automation is consider as process which executes certain task without any human interaction.

By using the automation technique we can automate multiple tasks as

- Moving , renaming or deleting files
- Downloading multiple files
- Updating and searching in files
- Sending and receiving mails
- Schedule task through the process

We can perform this kind of Automations by using Python.

We are going to follow some rules while writing Automation Scripts as

- Accept input through command line or through file.
- Display any message in log file instead of console.
- For separate task define separate function.
- For robustness handle every expected exception.
- Perform validations before taking any action.
- Create user defined modules to store the functionality.

Consider below template of Automation Script

```python
1  from sys import *
2
3  def fun(Parameter):
4      # Logic of script
5
6  def main():
7      print("---- Marvellous Infosystems by Piyush Khairnar-----")
8      print("Application name : " +argv[0])
9
10     if (len(argv)!= 3):
11         print("Error : Invalid number of Arguments")
12         exit()
13
14     if argv[1] == "-h":
15         print("This Script is designed for _____")
16         exit()
17
18     if argv[1] == "-u":
19         print("Usage : Appilcation_Name  _____ ")
20         exit()
21
22     try:
23         fun(argv[1])
24
28     except Exception as E:
29         print("Error : Invalid input"+E)
30
31     if ((len(argv) < 1) or (len(argv) > 3)):
32         print("Error : Invalid number of arguments")
33
34  if __name__ == "__main__":
35      main()
36
```